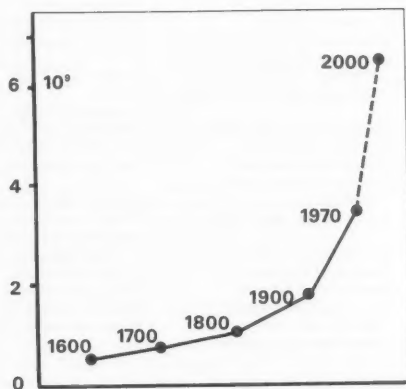


Vol. 28 1983  
July - December  
ISSN 0010-7824

# **CONTRACEPTION**

AN INTERNATIONAL JOURNAL



DANIEL R. MISHELL, Jr., M.D. — Editor

Publisher: GERON-X, INC., LOS ALTOS, CALIF.

**EDITOR**

Daniel R. Mishell, Jr., M.D.  
 Dept. of Obstetrics and Gynecology  
 University of Southern California School of Medicine  
 1240 North Mission Road  
 Los Angeles, California 90033

**EDITORIAL ASSISTANTS**

Alberta Lawson  
 Janis H. Torres

**BOARD OF ASSOCIATE EDITORS**

C. Wayne Bardin, M.D.  
 Director, Center for Biomedical  
 Research  
 The Population Council  
 1230 York Avenue  
 New York, New York 10021

Gerald S. Bernstein, Ph.D., M.D.  
 Professor  
 Department of Obstetrics and  
 Gynecology  
 USC School of Medicine  
 Los Angeles, California 90033

M.C. Chang, Ph.D., Sc.D.  
 Senior Scientist  
 Worcester Foundation for  
 Experimental Biology  
 Shrewsbury, Massachusetts 01545

Philip A. Corfman, M.D.  
 Director of Population Research  
 National Institute of Child Health  
 and Human Development  
 Bethesda, Maryland 20014

Uwe Goebelmann, M.D.  
 Director of the Reproductive  
 Endocrinology Laboratory  
 Women's Hospital  
 1240 North Mission Road  
 Los Angeles, California 90033

Joseph W. Goldzieher, M.D.  
 Professor and Director  
 Endocrine/Metabolic Research  
 Department of Obstetrics and  
 Gynecology  
 Baylor College of Medicine  
 St. Luke's Episcopal Hospital  
 Houston, Texas 77030

Peter F. Hall, M.D., Ph.D.  
 Principal Scientist  
 Worcester Foundation for  
 Experimental Biology  
 Shrewsbury, Massachusetts 01545

Roy Hertz, M.D., Ph.D.  
 Research Professor  
 Departments of Pharmacology  
 and Obstetrics and Gynecology  
 George Washington University  
 Medical Center  
 Washington, D.C. 20037

Susan Heyner, Ph.D.  
 Professor of Biology  
 Department of Biological Sciences  
 The Philadelphia College of  
 Pharmacy and Science  
 Philadelphia, Pennsylvania 19104

William D. Odell, M.D., Ph.D.  
 Professor and Chairman  
 Department of Medicine  
 University of Utah College of  
 Medicine  
 Salt Lake City, Utah 84132

C. Alvin Paulsen, M.D.  
 Professor of Medicine  
 Department of Medicine  
 University of Washington  
 School of Medicine  
 Seattle, Washington 98114

Allan Rosenfield, M.D.  
 Director, Center for Population  
 and Family Health  
 Professor, Ob/Gyn  
 and Public Health  
 Faculty of Medicine of  
 Columbia University  
 New York, New York 10032

John J. Sciarra, M.D., Ph.D.  
 Professor and Chairman  
 Department of Obstetrics  
 and Gynecology  
 North Western University and  
 Medicine School  
 333 East Superior Street  
 Chicago, Illinois 60611

Sheldon Segal, Ph.D.  
 Director,  
 Population Division  
 Rockefeller Foundation  
 1133 Avenue of the Americas  
 New York, New York 10036

William N. Spellacy, M.D.  
 Professor and Head  
 Department of Obstetrics  
 and Gynecology  
 University of Illinois  
 College of Medicine  
 840 South Wood Street  
 Chicago, Illinois 60612

CONTRACEPTION is indexed in Bibliography of Reproduction, Biological Abstracts, Chemical Abstracts, Current Contents, Excerpta Medica, Index Medicus, and International Pharmaceutical Abstracts. Articles are abstracted monthly in Core Journals in Obstetrics and Gynecology.

# Corresponding Editors for CONTRACEPTION

E. Coutinho, M.D.

Professor  
Department of Biochemistry  
and Obstetrics  
University of Bahia  
Salvador, Bahia, BRAZIL

P. G. Crosignani, M.D.

Professor  
IV Department of Obstetrics  
and Gynecology  
University of Milano  
Via M. Melloni, 52  
20429 Milano, ITALY

E. Diczfalussy, M.D.

Professor  
Reprod. Endocrinology  
Research Unit  
Swedish Med. Research Council  
Karolinska Sjukhuset  
Stockholm 60, SWEDEN

J. Ferin, M.D.

Professor  
Physiology of Human Reprod.  
Research Unit  
University of Louvain Hosp.  
Louvain, BELGIUM

C. Gual, M.D.

Instituto Nacional de la Nutricion  
Hospital de Enfermedades de la  
Nutricion  
Av. San Fernando y  
Viaducto Tlalpan  
Mexico 22, D.F., MEXICO

I. Hallbrecht, M.D.

Professor  
Department of Obstetrics  
and Gynecology  
Tel Aviv University Med. School  
Tel Aviv, ISRAEL

J. Hammerstein, M.D.

Professor  
Abt. Gynaek. Endokrinologie  
Sterilitat und Familienplanung  
Freie Universitat Berlin  
Hindenburgdamm 30  
1000 Berlin 45  
FED. REP. GERMANY

A. A. Haspels, M.D., Prof.

Department of Obstetrics  
and Gynecology  
Academic Hospital  
University of Utrecht  
Catharjnesingel 101  
Utrecht, NETHERLANDS

T. Luukkainen, M.D.

Steroid Research Laboratory  
University of Helsinki  
Department of Med. Chemistry  
Siltavuorenpenger 10A  
SF-00170 Helsinki 17,  
FINLAND

J. R. Newton, M.D., Prof.

Birmingham Maternity Hospital  
Queen Elizabeth Medical Centre  
Edgbaston, Birmingham 15  
ENGLAND

Badri N. Saxena, M.D.

Deputy Director General  
Indian Council of  
Medical Research  
Ansari Nagar  
New Delhi-110016, INDIA

R. P. Shearman, M.D.

Professor of Obstetrics  
and Gynecology  
The University of Sydney  
Sydney 2006, N.S.W.  
AUSTRALIA

M. Vessey, M.D., Professor of

Social and Community Medicine  
Dept. of Community Medicine  
& General Practice  
University of Oxford  
Gibson Laboratory Building  
Radcliffe Infirmary  
Oxford OX2 6HE  
ENGLAND

J. Zanartu, M.D.

Associate Professor  
Department of Experimental  
Fertility  
Universidad de Chile Clinica  
Obstetrica  
Hospital Jose Joaquin Aguirre  
Casilla 6637  
Santiago, CHILE

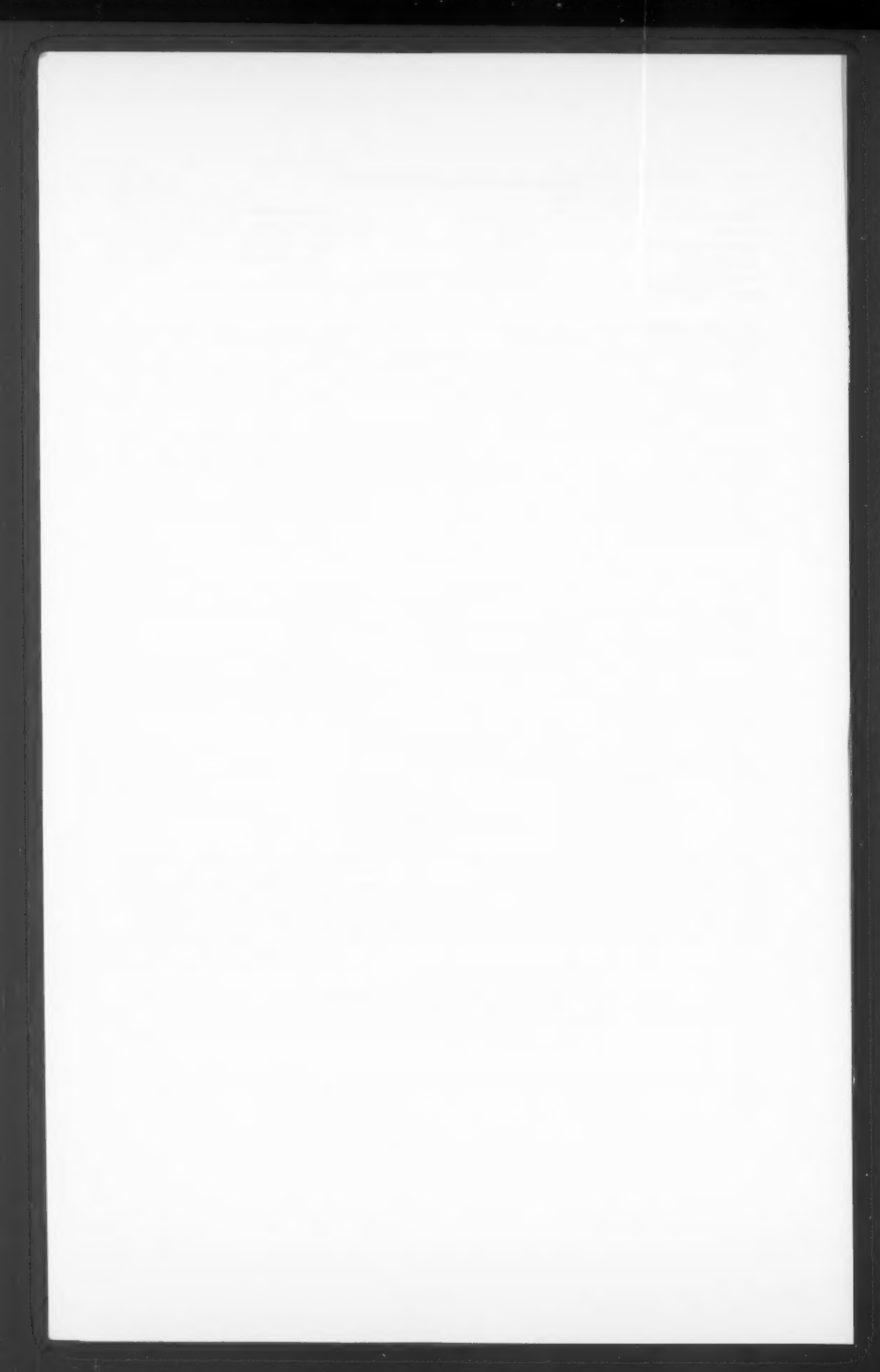
## GUIDE FOR AUTHORS

CONTRACEPTION invites concise reports of original research in the experimental and clinical aspects of all areas of contraception. The purpose of this journal is to provide a medium for the rapid communication of advances and new knowledge in this important field. The Editor anticipates receiving manuscripts from workers in the following areas of research: chemistry, biochemistry, physiology, endocrinology, biology, the medical sciences and demography. Publication of original papers within 90 days of manuscript receipt is planned. Authors will be advised of disposition of the manuscript within 30 days of receipt. Manuscripts should be sent to:

Daniel R. Mishell, Jr., M.D., Editor  
Department of Obstetrics and Gynecology  
University of Southern California School of Medicine  
Women's Hospital, Room L1009  
1240 North Mission Road  
Los Angeles, California 90033

Authors outside the United States should address manuscripts to a corresponding editor in their own country. Authors in countries not represented by a corresponding editor should send their manuscripts directly to The Editor.

Preparation of Manuscript - (See next page)



# CONTRACEPTION

July 1983

Volume 28, Number 1

Multinational Comparative Clinical Trial of Long-Acting Injectable Contraceptives: Norethisterone Enanthate Given in Two Dosage Regimens and Depot-Medroxy- progesterone acetate. Final Report WHO Task Force on Long Acting Agents for the Regulation of Fertility.....	1
Pharmacodynamic Effects of Ethinyl Estradiol in Women Using Vaginal Devices Releasing Small Doses of Levonorgestrel at a Constant Rate V. Toddyvalle, E. Johannisson, B.-M. Landgren, S.Z. Cekan and E. Diezfalussy.....	21
Blood Hormone Levels in Egyptian Women on Norethisterone Oenanthate F.M. Saleh, H.N. Sallam, H. Abdel-Rahman, A.-R. Souka, S.Y. El-Sahwi and H.K. Toppozada.....	41
The Effect of Cotrimoxazole on Oral Contraceptive Steroids in Women S.F.M. Grimmer, W.L. Allen, D.J. Back, A.M. Breckenridge, M. Orme and J. Tjia.....	53
Effects of Daily 30 mcg d-Norgestrel on Growth Hormone and Cortisol P. Virutamasen, C. Wongsrichanalai, K. Channiyom and B. Boonsiri.....	61
Urinary Concentrations of Steroid Glucuronides in Women Taking Oral Contraceptives M.A. Shaw, D.J. Back, S.A. Aird, S.F.M. Grimmer and M.C.L'E. Orme.....	69
Binding of the Anti-Progestin RU-486 to Rat Ovary Steroid Receptors J.R. Schreiber, A.J.W. Hsueh and E.F. Baulieu.....	77
Absence of Effect of Danazol on Estrogen-Induced Luteinizing Hormone Release from Rat Hypothalamo-Pituitary Axis <u>in Vitro</u> A. Miyake, K. Tasaka and T. Aono.....	87
Inhibition of Rat Embryonic Development by the Intrauterine Administration of $\alpha$ -Difluoromethylornithine J.D. Méndez, M. Diaz-Flores, G. Durán and J.J. Hicks.....	93
Erratum.....	99
Announcement.....	101

# CONTRACEPTION

August 1983

Volume 28, Number 2

An User Acceptability Study of Vaginal Spermicides in Combination with Barrier Methods or an IUCD C. Black and V.P. Houghton.....	103
Methods to Determine Success of Attempts to Terminate Early Gestation Pregnancies with Prostaglandin Vaginal Suppositories P.F. Brenner, R.P. Marrs, S. Roy and D.R. Mishell, Jr.....	111
Ultrasonic Measurement of Ovarian Follicles During Chronic LRH Agonist Treatment for Contraception C. Bergquist and P.-G. Lindgren.....	125
A Clinical Trial of the Delta-T Intrauterine Device: Immediate Postpartum Insertion P.F. Brenner.....	135
Influence of Acetaminophen-Induced Hepatic Necrosis on the Pharmacokinetics of Levonorgestrel A.A. Gommaa and F.H. Osman.....	149
Contraceptational Effects of DL- $\alpha$ -Difluoro-Methylornithine, an Irreversible Inhibitor of Ornithine Decarboxylase, in the Hamster G. Galliani, G. Colombo and F. Luzzani.....	159
Effect of Polyphlorethin Phosphate on the Contraceptive Action of a Polyethylene Intrauterine Device in Rats M.R. Chaudhury.....	171
Reduced Plasminogen Activator Content of the Endometrium in Oral Contraceptive Users B. Casslén and B. Åstedt.....	181
Metabolic Effects of Two Triphasic Formulations Containing Ethinyl Estradiol and di-Norgestrel R.P. Smith and R. Sizto.....	189

# CONTRACEPTION

September 1983

Volume 28, Number 3

Blood Prolactin Levels: Influence of Age, Menstrual Cycle and Oral Contraceptives F. Pansini, A. Bianchi, V. Zito, G. Mollica, A.R. Cavallini, G.C. Candini, B. Bagni, C. Bergamini and P. Bassi.....	201
Comparative Study of Various Intracervically Administered PG Gel Preparations for Termination of First Trimester Pregnancies W. Rath, D. Meyer, J. Hildebrandt, R. Hilgers and W. Kuhn.....	209
Three Methods for Gradual Cervical Dilatation Prior to Vacuum Aspiration in Late First Trimester Pregnancy S. Sema, V. Hingorani, S. Kumar and G. Kinra.....	223
Insertion of the Laparoscopic Trocar Without the Use of Carbon Dioxide Gas S. Pine, J.I. Barke and P. Barna.....	233
Plasma Levels and Pharmacokinetics of Norethindrone and Ethinylestradiol Administered in Solution and as Tablets to Women F.Z. Stanczyk, E.J. Mroszczak, T. Ling,, R. Runkel, M. Henzl, I. Miyakawa and U. Goebelsmann.....	241
Influence of a Levonorgestrel-Containing Contraceptive Vaginal Ring on Plasma Lipids and Lipoproteins in Cynomolgus Monkeys M.R. Adams, L.L. Rudel, T.B. Clarkson, C.A. Nelson, R.B. Thau and A.J. Moo-Young.....	253
The Effect of Oxytocin on the Corpus Luteum of the Monkey J.W. Wilks.....	267
Antifertility Effect of Sulfasalazine in the Male Rat C. Pholpramool and A. Srikhao.....	273
Structural and Functional Changes in Epididymis Following Danazol Plus Testosterone Enanthate Administration in Rabbit N.K. Lohiya and R.C. Sharma.....	281
Corrigendum.....	295
Announcement.....	297

# CONTRACEPTION

October 1983

Volume 28, Number 4

Immediate Postplacental IUD Insertion: A Randomized Trial of Sutured (Lippes Loop and TCu220C) and Non-Sutured (TCu220C) Models M. Thiery, L. Lafe, W. Parewicz, H. Van Der Pas, H. Van Kets, R. Derom and P. Defoort.....	299
Ovarian Function, Bleeding Control and Serum Lipoproteins in Women Using Contraceptive Vaginal Rings Releasing Five Different Progestins T. Åhrén, A. Victor, H. Lithell, B. Vessby, T.M. Jackanicz and E.D.B. Johansson.....	315
Effect of Laparoscopic Sterilization and Insertion of Multiload Cu 250 and Progestasert IUDs on Serum Ferritin Levels T.H. Goh and M. Hariharan.....	329
HPLC-RIA of a Metabolite of Norethindrone in Human Plasma, 17 $\alpha$ -Ethinyl-5 $\beta$ -Estrane-3 $\alpha$ , 17 $\beta$ -Diol, Following Conjugate Hydrolysis H. Watanabe, J.A. Menzies, N. Jordan and J.C.K. Loo.....	337
Effects of Contraceptive Vaginal Ring Treatment on Vaginal Bacteriology and Cytology A. Schwan, T. Åhrén and A. Victor.....	341
Sterilization at the Time of Cesarean Section: Tubal Ligation or Hysterectomy? I. Bukovsky, D. Schneider, Z. Weinraub, S. Arieli, P. Schreyer and E. Caspi.....	349
Plasma Lipoproteins and Fatty Acid Composition After "Minipill" A. Sassolas, M. Lagarde, M. Guichardant, Cl. Quincy and M. Dechavanne.....	357
Immediate Sequelae Following Tubal Sterilization Indian Council of Medical Research Task Force on Female Sterilization.....	369
A Survey of Different Approaches to Management of Menstrual Disturbances in Women Using Injectable Contraceptives I.S. Fraser.....	385



# CONTRACEPTION

November 1983

Volume 28, Number 5

A Comparative Study of Lippes Loop and Delta Loop Intrauterine Devices in Early Postpartum S. Chompoonawee, D. Reinprayoon, P. Virutamasen, A. Somboonsuk and N. Dusitsin . . . . .	399
Norethisterone Levels in Maternal Serum and Milk After Intramuscular Injection of Norethisterone Oenanthate As a Contraceptive K. Fotherby, O. Towobola, J. Muggeridge and M.G. Elder. . . . .	405
The Effect of Sex Steroids on Insulin Binding by Target Tissues in the Rat G. Ballejo, T.H. Saleem, F.S. Khan-Dawood, J.C.M. Tsibris and W.N. Spellacy . . . . .	413
Long-Term Effects of Vasectomy. Part I: Biochemical Parameters Indian Council of Medical Research Task Force Study on Regulation of Male Fertility (Surgical Approaches). . . . .	423
Methodologic Considerations in Studies on Female Sterilization - A Review for Clinicians I.-c. Chi and P.J. Feldblum . . . . .	437
A Comprehensive Review of the Sequelae of Male Sterilization M. Frances and G.T. Kovacs. . . . .	455
Billings Natural FP Method: Correlation of Subjective Signs with Cervical Mucus Quality and Ovulation J.J. Etchepareborda, L.V. Rivero and E. Kesserü . . . . .	475
Effects of Androgens on Fertilizing Capacity of Human Spermatozoa S.Y.W. Chan, L.C.H. Tang, G.W.K. Tang and P.H. Chan . . . . .	481
The Short-Term Effects of a Low-Dose Oral Contraceptive on Glucose Metabolism, Plasma Lipids and Blood Clotting Factors S.O. Skouby, H.H. Wagner and O. Andersen. . . . .	489
Announcements . . . . .	501

# CONTRACEPTION

December 1983

Volume 28, Number 6

Influence of Oral Contraceptives on the Incidence of Premalignant and Malignant Lesions of the Cervix L. Andolsék, J. Kovačic, M. Kožuh and B. Litt.....	505
Comparison Between OM-GA Cu and Copper-T IUCDs E. Confino, B. Ismajovich, A. Rudick, G. Yedwab and M.P. David.....	521
Long-Term Effects of Vasectomy. Part II: Immunological Parameters Indian Council of Medical Research Task Force Study on Regulation of Male Fertility (Surgical Approaches).....	527
Scanning Electron Microscopy and X-Ray Microanalysis of Foreign Bodies Associated with Silastic Implants in Humans A.H. Tatum, J.D. Shelburne, P. Ingram, D.N. Robertson, H.B. Croxatto and S. Diaz.....	543
Occurrence of Both Urokinase and Tissue Plasminogen Activator in the Human Endometrium B. Casslén and B. Åstedt.....	553
The Effect of $\alpha$ -Chlorohydrin on the Oxidation of Fructose by Rabbit Spermatozoa <u>In Vitro</u> S.A. Ford and A.R. Jones.....	565
Effects of Cyproterone Acetate with Combination of Testosterone Enanthate on Seminal Characteristics, Androgenicity and Clinical Chemistry in Langur Monkey N.K. Lohiya and O.P.Sharma.....	575
The Effect of Sex Steroids and Hormonal Contraceptives upon Thymus and Spleen of Intact Female Rats H. Kuhl, M. Gross, M. Schneider, W. Weber, W. Mehliß, M. Stegmüller and H.-D. Taubert.....	587
Author Index.....	603
Subject Index.....	607

